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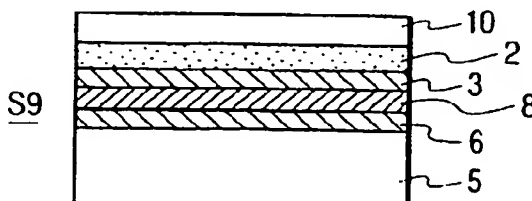
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(54) **Method of preparing a SOI substrate by using a bonding process, and SOI substrate produced by the same**

(57) A semiconductor substrate adapted to giga-scale integration (GSI) comprises a support, at least the surface of which is made of semiconductor, an electroconductive material layer, an insulating layer and a semiconductor layer arranged sequentially in the above order. The electroconductive material layer has at least in part thereof an electroconductive reacted layer obtained

by causing two metals, a metal and a semiconductor, a metal and a metal-semiconductor compound, a semiconductor and a metal-semiconductor compound, or two metal-semiconductor compounds to react each other. An electroconductive reaction terminating layer that is made of a material that does not react with the reacted layer is arranged between the reacted layer and the insulating layer or the support.

**FIG. 11**



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# EUROPEAN SEARCH REPORT

Application Number  
EP 98 30 5994

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Place of search BERLIN		Date of completion of the search 26 November 1999	Examiner Le Meur, M-A
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